

**Notice of Allowability**

Application No.

09/935,215

Examiner

Justin P. Misleh

Applicant(s)

PEREIRA ET AL.

Art Unit

2612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 26 January 2005.
2. ☒ The allowed claim(s) is/are 1 - 4.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |                                                                                                                     |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)                                                    | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|                                                                                                                     | 9. <input type="checkbox"/> Other _____                                               |

### EXAMINER'S AMENDMENT

1. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Scott C. Harris on 13 June 2005.
3. The application has been amended as follows:

### SPECIFICATION

- **Page 10 (line 1):** please change "FIG 8" to "Figures 8A-8B".
- **Page 10 (line 28):** please change "FIG 13" to "Figure 13".
- **Page 11 (line 13):** please delete "200".
- **Page 13 (line 8):** please insert "(third CCD camera not shown in Figure 3)." after "304".
- **Page 13 (lines 8 and 18):** please delete "302".
- **Page 13 (line 23):** please change "302" to "304".
- **Page 14 (line 6):** please delete "302".
- **Page 15 (line 18):** please change "prisms 510, 512, 514 is directly" to prisms e.g. 510 and 514 is directly".
- **Page 16 (line 19):** please change "figure 7" to "Figure 7".
- **Page 16 (lines 22 and 23):** please change "figure 8" to "Figure 8A".
- **Page 16 (line 30):** please change "805" to "804".

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- **Page 19 (line 4):** please change “FIG 3” to “Figure 3”.
- **Page 20 (line 2):** please change “FIG. 2” to “Figure 2”.
- **Page 20 (line 16):** please change “Fig. 9” to “Figure 9”.
- **Page 20 (line 19):** please change “figures” to “Figures”.
- **Page 20 (line 20):** please change “figure 10” to “Figure 10”.

### CLAIMS

- **Claim 1 (line 6):** please change “lenses” to “lens assemblies”.
- **Claim 1 (line 9):** please delete “plurality of”.
- **Claim 1 (line 13):** please delete “each of”.

### DRAWINGS

The amendment to the drawings can be found in detail on the attached marked-up sheets; however, a summary of the changes is below. These drawing changes have been approved by Applicant, as shown above; in order to avoid abandonment of the application, Applicant **MUST** make these drawing changes.

- **FIG. 3:** reference numeral “308” has been deleted.
- **FIG. 3:** reference numeral “302” has been changed to “332”.
- **FIG. 4A:** miscellaneous marks have been deleted and replaced with reference numeral “406”.
- **FIG. 5:** reference numeral “5” has been deleted.
- **FIG. 5:** reference numeral “5606” has been changed to “506”.

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- **FIG. 6:** miscellaneous marks have been deleted and replaced with reference label “FIG. 6”.
- **FIG. 8B:** reference numerals “806”, “808”, and “809” have been added.

***Terminal Disclaimer***

4. The terminal disclaimer filed on 26 January 2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent Number 6,278,847 has been reviewed and is accepted. The terminal disclaimer has been recorded.

***Allowable Subject Matter***

5. **Claims 1 – 4** are allowed.

6. The following is an Examiner’s statement of reasons for allowance:

In light of the filed terminal disclaimer (as stated above), the prior art does not teach or fairly suggest imaging a site through three separate camera lens assemblies, wherein the overall size of a scene that is imaged through the separate lens assemblies is restricted to the light passing through a plurality of apertures arranged in specified shapes, wherein each aperture of the plurality is respectively associated with each one of the separate lens assemblies; further, wherein each lens assembly is associated with a respective camera portion such that all the light passing through the plurality of apertures is imaged as an entire image by all the camera portions to determine three dimensional object information about an object in the scene.

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7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


### *Conclusion*

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Justin P Misleh whose telephone number is 571.272.7313. The Examiner can normally be reached on Monday through Thursday from 7:30 AM to 5:00 PM and on alternating Fridays from 8:00 AM to 4:30 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Wendy R Garber can be reached on 571.272.7308. The fax phone number for the organization where this application or proceeding is assigned is 703.872.9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JPM  
June 24, 2005

  
WENDY R. GARBER  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600

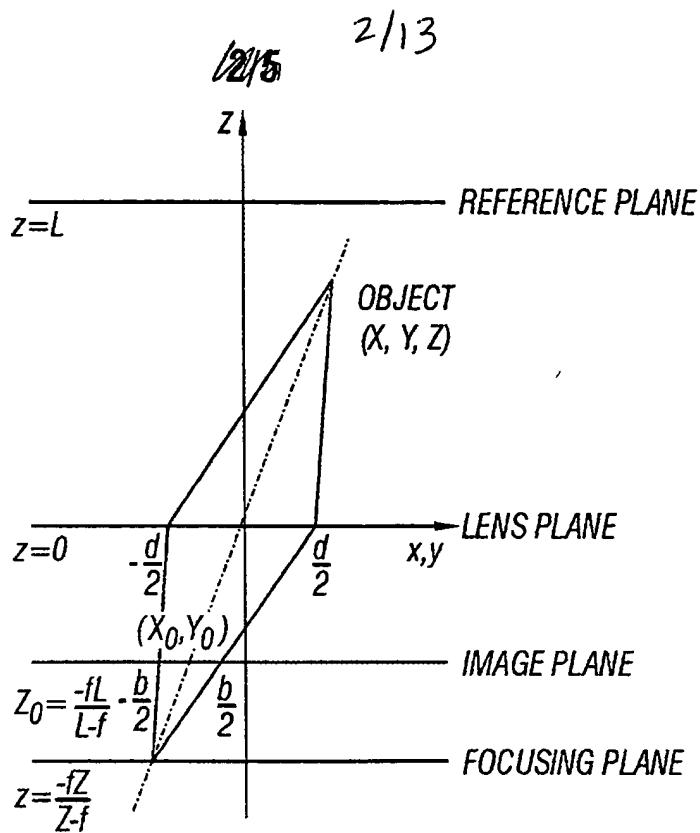


FIG. 2

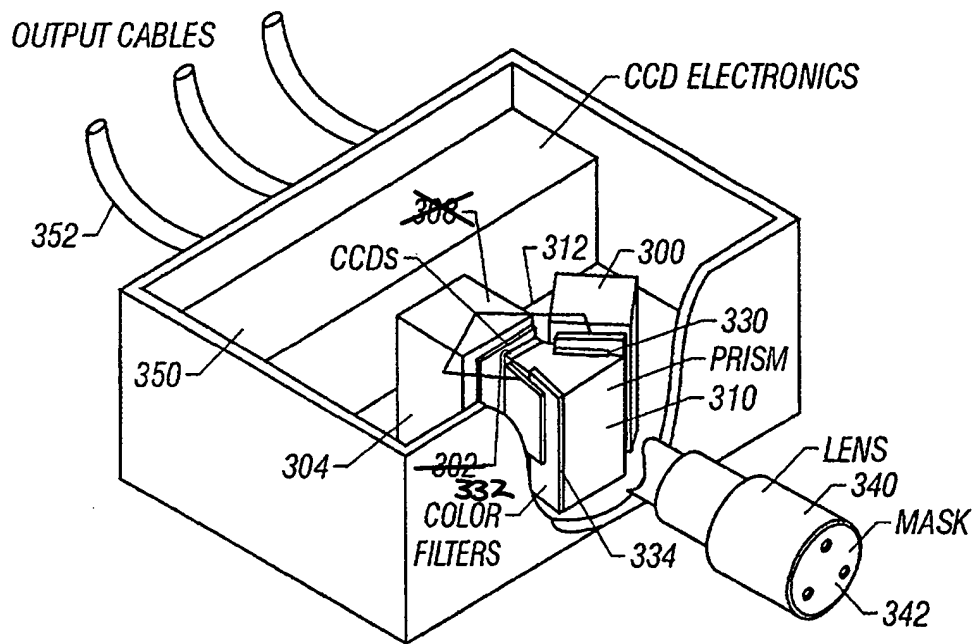


FIG. 3

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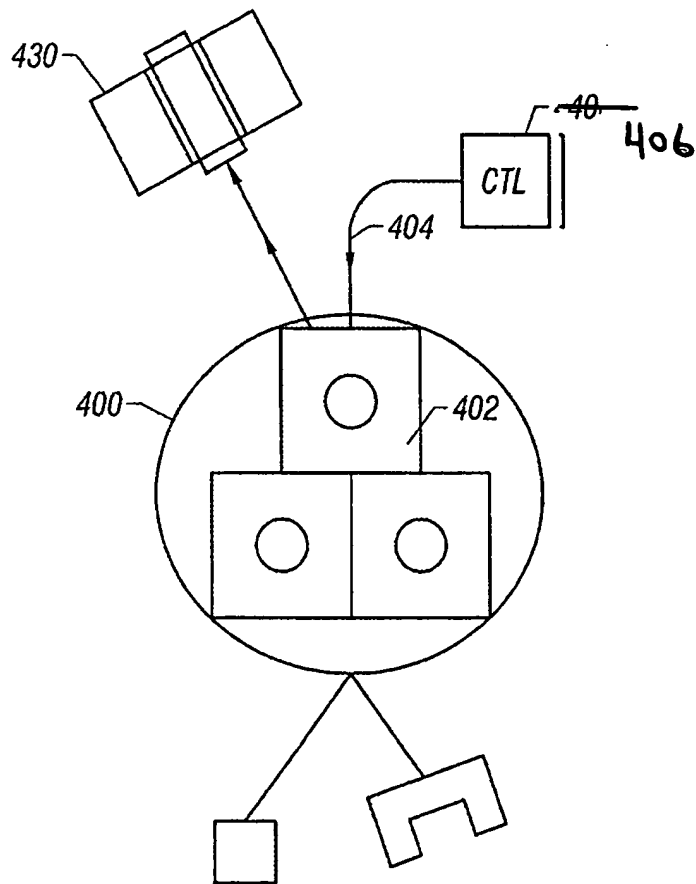


FIG. 4A

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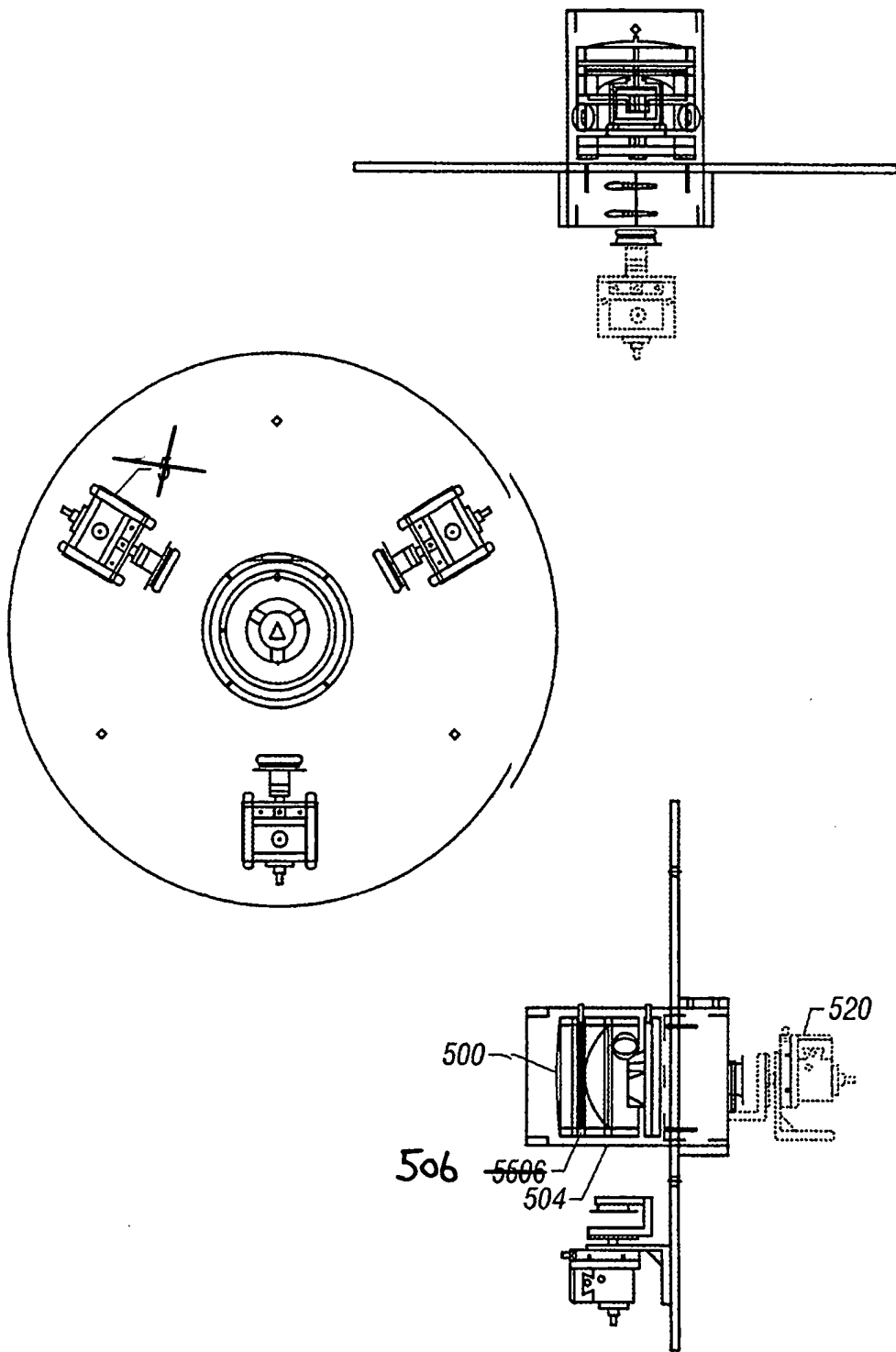
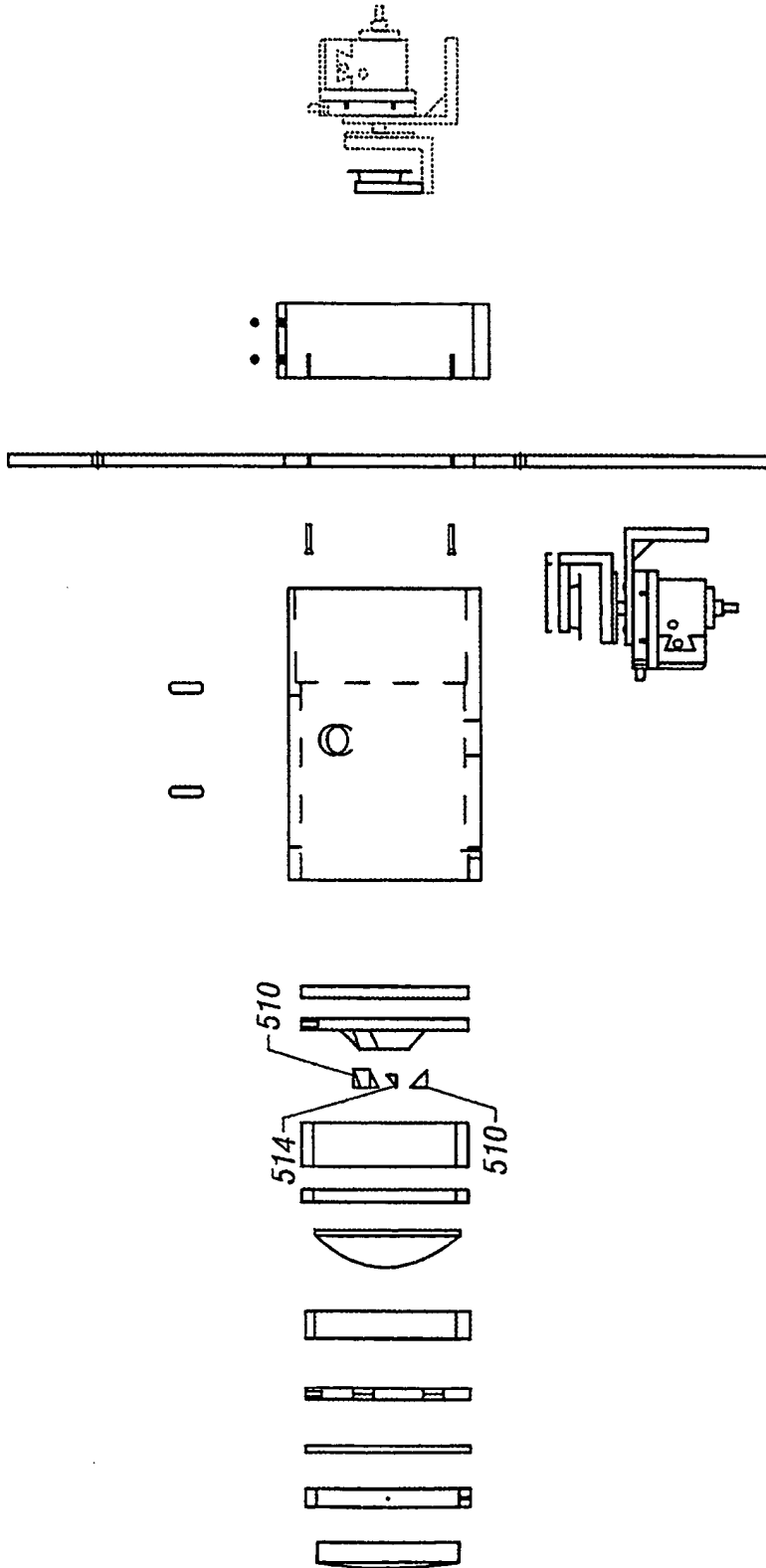


FIG. 5



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~~FIG. 6~~  
FIG. 6

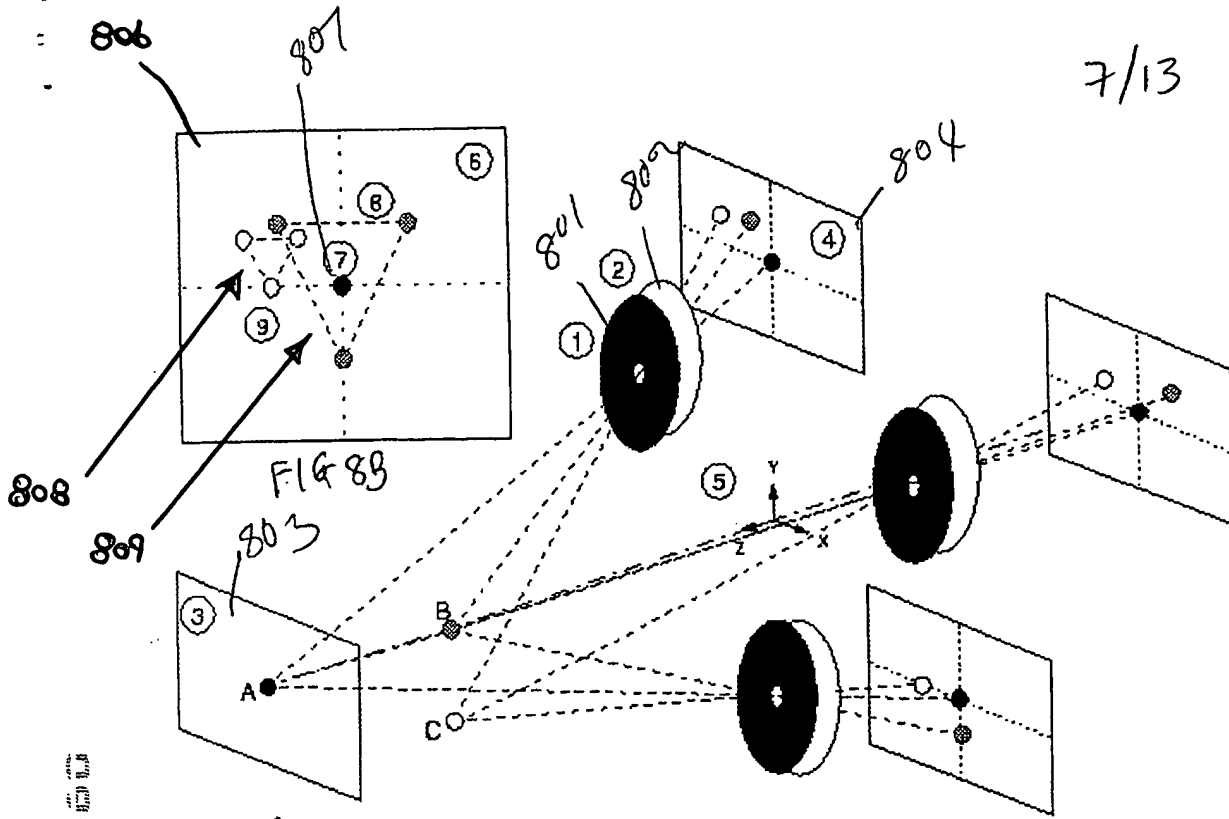


FIG 8A